

INTERNATIONAL SEARCH REPORT

National Application No

F/BE2004/000116

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G10L11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G10L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	<p>B.BOZKURT AND T.DUTOIT: "Mixed-Phase Speech Modeling and Formant Estimation, Using Differential Phase Spectrums" PROC. ISCA ITRW VOQUAL 2003, 'Online! 27 August 2003 (2003-08-27), pages 21-24, XP002312214 GENEVA, SWITZERLAND Retrieved from the Internet: URL:http://tcts.fpms.ac.be/publications/papers/2003/voqual03_bbtd.pdf> 'retrieved on 2004-12-02! the whole document</p> <p>-----</p> <p style="text-align: center;">-/-</p>	1-11

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

30 December 2004

Date of mailing of the international search report

14/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Van Doremalen, J

INTERNATIONAL SEARCH REPORT

national Application No T/BE2004/000116

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	<p>B.DOVAL, C.D'ALESSANDRO, NATHALIE HENRICH: "The Voice Source as a causal/anticausal linear filter" PROC. ISCA ITRW VOQUAL 2003, 'Online! 27 August 2003 (2003-08-27), pages 15-20, XP002312215</p> <p>GENEVA, SWITZERLAND Retrieved from the Internet: URL:http://www.isca-speech.org/archive/archive_papers/voqual03/voq3_015.pdf> 'retrieved on 2004-12-02! the whole document</p> <p>-----</p>	1-11
Y	<p>DATABASE INSPEC 'Online! THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 1990, JACKSON L B: "Noncausal ARMA modeling of voiced speech" XP002312218</p> <p>Database accession no. 3517863 abstract paragraph '00II! & JACKSON LELAND B: "Noncausal ARMA modeling of voiced speech" IEEE TRANSACTIONS ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, vol. 37, no. 10, October 1989 (1989-10), pages 1606-1608, IEEE Transactions on Acoustics, Speech and Signal Processing USA ISSN: 0096-3518</p> <p>-----</p>	1-9,11
Y	<p>DATABASE INSPEC 'Online! THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 1985, REDDY N S ET AL: "High-resolution formant extraction from linear-prediction phase spectra" XP002312216</p> <p>Database accession no. 2427409 abstract</p> <p>-/-</p>	1-9,11

INTERNATIONAL SEARCH REPORT

International Application No
CT/BE2004/000116

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	<p>& N. SRIDHAR REDDY AND M.N.S. SWAMY: "High-Resolution Formant Extraction from Linear-Prediction Phase Spectra" IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, vol. ASSP-32, no. 6, 6 December 1984 (1984-12-06), pages 1136-1144, USA ISSN: 0096-3518 page 1136, right-hand column, line 33 - line 43 page 1138, left-hand column, line 21 - right-hand column, line 8 page 1142, right-hand column, line 18 - line 25</p> <p>-----</p> <p>A DATABASE INSPEC 'Online! THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 1989, DUNCAN G ET AL: "A nonparametric method of formant estimation using group delay spectra" XP002312217 Database accession no. 3472036 abstract page 572, right-hand column, line 1 - line 12 page 573, left-hand column, line 48 - right-hand column, line 2 paragraph '0004! & ICASSP-89: 1989 INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING (IEEE CAT. NO.89CH2673-2) 23-26 MAY 1989 GLASGOW, UK, 23 May 1989 (1989-05-23), - 26 May 1989 (1989-05-26) pages 572-575 vol.1, ICASSP-89: 1989 International Conference on Acoustics, Speech and Signal Processing (IEEE Cat. No.89CH2673-2) IEEE New York, NY, USA</p> <p>-----</p>	
A	<p>DATABASE INSPEC 'Online! THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE, GB; 1997, DOVAL B ET AL: "Spectral correlates of glottal waveform models: an analytic study" XP002312219 Database accession no. 5730449 cited in the application abstract</p>	1
	-/-	

INTERNATIONAL SEARCH REPORTNational Application No
P/BE2004/000116**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	& B.DOVAL AND C.D'ALESSANDRO: "Spectral correlates of glottal waveform models: an analytic study" 1997 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING 21-24 APRIL 1997 MUNICH, GERMANY, vol. 2, 21 April 1997 (1997-04-21), pages 1295-1298 vol., 1997 IEEE International Conference on Acoustics, Speech, and Signal Processing (Cat. No.97CB36052) IEEE Comput. Soc. Press Los Alamitos, CA, USA ISBN: 0-8186-7919-0 -----	